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ELECTRIC POWER CONSUMPTION IN AUSTRIA

The basic data in Table 1 are derived from a report of the Austrian National Committee given at the Fourth World Power Conference in London in 1949, entitled "The Sources and Development of Austria's Supply of Energy." The report was compiled by O. Ruiss and O. Vas and was reprinted in condensed form in Oesterreichische Zeitschrift fuer Elektrizitaetswirtschaft, Vol III, No 8, Vienna, August 1950. Table 1 is supplemented by more recent data from sources as indicated.

The following table shows the principal domestic consumer groups receiving electric power in 1937, 1946, 1947, and 1948.

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STATE		NAVY	X	NSRB	X		DISTRIBUTION							
ARMY	X	AIR	X	FBI										

Table 1. Principal Domestic Consumers of Electric Power in Austria, 1937 and 1946 - 1948

	1937 (million kw-hr)	1937 (%)	1946 (million kw-hr)	1946 (%)	1947 (million kw-hr)	1947 (%)	1948 (million kw-hr)	1948 (%)
Small consumers								
Households	213	8.6	537	18.8	540	16.1	548	12.7
Trades	112	4.5	240	8.4	262	7.8	268	6.2
Agriculture	66	2.7	55	1.9	61	1.8	74	1.7
Large consumers								
Power drawn from public network without use of own power production	438	17.7	707	24.8	980	29.3	1469	34.0
With own power production *	871	35.1	390	13.7	507	15.1	732	17.0
Transportation								
Austrian Federal Railroad	165	6.6	202	7.1	235	7.0	253	5.9
Other transportation	77	3.1	86	3.0	102	3.0	122	2.8
Public lighting	37	1.5	13	0.5	23	0.7	30	0.7
Internal consumption by power plants	57	2.3	63	2.2	83	2.5	94	2.2
Losses in transmission	444	17.9	558	19.6	561	16.7	723	16.8
Total consumption	2480	100.0	2851	100.0	3354	100.0	4313	100.0
Total consumption in kilowatt-hours per inhabitant and year	366		410		483		620	

* Including Losses

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The only important change is to be found in the supply of current to major industrial consumers; in the past few years, these have satisfied their requirements to a considerably higher degree from the public power lines. This is the result of the completion of large industrial plants such as, among others, the aluminum plant at Ranshofen and the nitrogen plant at Linz.

The following figures on Austria's consumption, production, and export of electric power have been compiled from the Klagenfurt Volkszeitung of 29 April 1951:

Item	Year	Kilowatt-hours
Electricity consumption	1937	2,479,000,000
Electricity consumption	1950	5,600,000,000
Electricity production	1937	2,892,000,000
Electricity production	1950	6,380,000,000
Electricity exported	1950	780,000,000

The average industrial consumption in the 6 winter months 1950 - 1951 was 30 percent above that for the same period in 1949 - 1950 and amounted to 145 million kilowatt-hours. The chemical industry accounted for the consumption of 88 million kilowatt-hours, the iron industry for 80 million kilowatt-hours, and the paper industry for 20 million kilowatt-hours.

A table from the Vienna Statistische Nachrichten, Vol VI, No 8. August 1951, indicates how much power is drawn from the Austrian public power network by individual industrial groups, as follows:

Table 2. Power Drawn From Austrian Public Network by Industrial Groups, 1947-1950
(million kw-hr)

Industry	1947	1948	1949	1950
Ranshofen aluminum plant	101.6	247.0	258.9	317.8
Chemical industry	129.8	234.0	270.6	363.5
Iron-producing industry	140.8	217.0	243.2	300.3
Paper industry	31.4	54.3	72.2	90.7
Textile industry	24.6	35.1	53.6	78.4
Cement industry	23.6	38.6	58.1	74.2
Motor-vehicle industry	24.4	40.4	51.2	59.6
Iron- and metal-products industry	16.2	27.9	40.3	52.7

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